



ESE Development of Roadmaps for Implementing Research Strategy

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Roadmap Development

- Aims of Roadmaps are to:
 - Assist ESE in planning, especially in documenting integrated planning (e.g., satellite observations, suborbital observations, models) for providing answers to questions in Research Strategy
 - Demonstrate NASA-unique contributions to science effort
 - Provide clear indication of deliverables and products for policy and decision-makers
 - Provide natural tie into development of performance measures
 - Serve to communicate planning process to sponsors and stakeholders

Review of Roadmap Goals

- Roadmaps need to provide a clear sense of
 - Where we are starting out?
 - “What does the answer looks like?” - since we can’t know “What will it be?”
 - What are the key program elements that contribute to our ability to answer the questions (space, suborbital, modeling, etc.)?
 - What steps are being taken to assure that anticipated future capability will be available?
 - What needed program elements can be realistically expected to be doable based on approved programs and budgets, and what go beyond?
 - What are some intermediate milestones that should be visible along the way (and can these be turned into performance measures)?
 - What is the impact of these milestones for research and the broader community?

Roadmapping History

- Doing by 3rd tier question - at May ESSAAC meeting, had about 1/3 in consistent format at some stage, others in alternate formats, and others just being started
 - Emphasized prediction at early stage because that's where output is most useful for decision-makers
- Committee made strong statement that “23 is too many” and that significantly reduced number of more integrated roadmaps needed to be created.
- Recognized a need to have various “levels” to help clarify program inputs
- Initiated development of more detailed implementation roadmaps involving ESSAAC and community

Roadmap Progress

- Initiated groups to begin work on detailed roadmaps organized largely around prediction questions
- Roadmaps have multiple levels incorporated to provide more detailed information on implementation
- Over time roadmaps took on more of a “focus area” flavor as we work to implement results of Enterprise Retreat and then work on budget and performance document
- Roadmaps now form part of budget and performance document for ESE
- Roadmap “cover sheet sets” provide summary without overwhelming detail

Roadmap Review

- Over Next Two Days, see summaries of 6 roadmaps prepared by teams from HQ, ESTO, centers, ESSAAC members, and community^
 - Carbon et al. - Diane Wickland
 - Climate* - Tsengdar Lee
 - Atmospheric Composition - Mike Kurylo (presented by Don Anderson)
 - Solid Earth* - John Labrecque
 - Water Cycle - Jared Entin
 - Weather - Jim Dodge

* Reflect two questions as separate roadmaps but are integrated with cover sheet

^ Keya Chatterjee played crucial role in integrating full roadmaps.